



## Subject card

Subject name and code	Technology of Highway Works , PG_00044227						
Field of study	Civil Engineering						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies	Subject group			Optional subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	4	Language of instruction			Polish		
Semester of study	7	ECTS credits			3.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Jacek Alenowicz				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	15.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		5.0		40.0	75
Subject objectives	Widening of knowledge in the field of road works technology.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K6_W16] Has deeper and adequate knowledge of civil engineering, within offered specialization		Student has organized and extended knowledge on road and motorway construction.				
	[K6_U17] has specialized skills in civil engineering within offered specialization		Student has ability to recognize adequate technological processes in road construction. Student has ability to chose suitable road construction plant and materials.				
	[K6_W10] Has basic knowledge on design, construction and maintenance of roads and railroads		Student recognizes and classifies operational sequence of road construction. Student defines and describes choice of suitable road construction plant and materials.				
Subject contents	Lectures: Execution of earthworks. Technology of soil stabilization. Construction of bituminous layers. Technology of concrete pavements. Cold and hot recycling of asphalt pavements.  Designing: Design of strenghtening of poor subgrade soil and pavement layers with use of geosynthetics. Planning of execution of selected road technology activities. Design of hot mix asphalt mixture with reclaimed asphalt pavement.						
Prerequisites and co-requisites	Knowledge from the subject ROAD AND MOTORWAY CONSTRUCTION (BPS017)						
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade	
	Test		60.0%			50.0%	
	Project		100.0%			50.0%	

Recommended reading	Basic literature	<ol style="list-style-type: none"> <li>1. Piłat J., Radziszewski P., Nawierzchnie asfaltowe, WKŁ, 20010</li> <li>2. Szydło A.: Nawierzchnie drogowe z betonu cementowego, Polski Cement, 2004</li> <li>3. Błażejowski K., Styk S., Technologia warstw asfaltowych, WKŁ, Warszawa, 2009</li> <li>4. Głazewski M., Nowocień E., Piechowicz K., Roboty ziemne i rekultywacyjne w budownictwie komunikacyjnym, WKŁ, Warszawa, 2011</li> </ol>
	Supplementary literature	Judycki J., Alenowicz J., Nowoczesne metody renowacji nawierzchni asfaltowych., WKŁ Warszawa 1988
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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